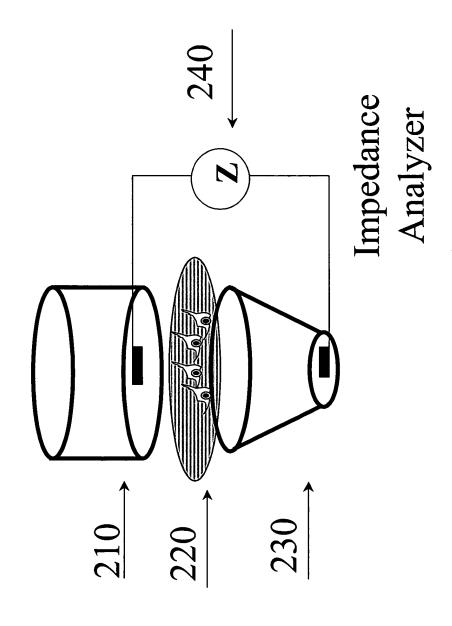
Figure 1

Figure 2



10, 10, ,5 **°** 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 2AA 2AB Figure 3A (1) ş 5 ъ Б _1°51 Z 10 **10** .Z 102 •Z \$ \$ 10° Z D 5 ₽ Resistance (Ohm) Resistance (Ohm) Reactance (Ohm) Reactance (Ohm)

2AB (No cells attached)

10⁴ 10⁵ Frequency (Hz)

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,5

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10⁴ 10⁵ Frequency (Hz)

5

.Z

<u>*</u>0

2AA (No cells attached)

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10⁴ 10⁵ Frequency (Hz)

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•S 5 5 5 •Familyani 5

,5

10⁴ 10⁵ Frequency (Hz)

5

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.Z

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,0 6 10 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) Frequency (Hz) 2AC 2AD **₽** Figure 3A (2) 10 5 ტ გ -1°51 104 . 10. ·Z 10 Z 103 Z, 10³ . . <u>6</u> .Z .5 Resistance (Ohm) Resistance (Ohm) Reactance (Ohm) Reactance (Ohm)

5

10⁴ 10⁵ Frequency (Hz)

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•Z 5 5 5 Fmir pair pi

10

2AD (No cells attached)

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10⁴ 10⁵ Frequency (Hz)

5

Z. 10 10* 10^{\$} Frequency (Hz)

10

•Z

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10⁴ 10⁵ Frequency (Hz)

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2AC No Cells attached

3A (No cells attached) 2BE No cells attached 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10 5 ఫ్ ائ 19 *X \$\overline{p}\$ \overline{p}\$ \overline{p}\$ \overline{p}\$ \overline{p}\$ \overline{p}\$ \overline{p}\$ z چَ Z, 10, ۲. چ 10, ۍ ا ₽ ē **₽** 5 7 ₽, å . 0 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 3A **2BE** Figure 3A (3) 5 5 5 'S 5 ۳-آست •X \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ 10 10° ر ع .Z ₽ , 0 5 Resistance (Ohm) Reactance (Ohm) Resistance (Ohm) Reactance (Ohm)

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6

3B No cells attached 3C No cells attached å ő . 0 10⁴ 10⁵
Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 5 გ ل ъ •Z 100 10, *Z \$ \$ \$ \$ \$ გ 10 10 ₽ 5 ρō ٠Z ۰Z 10, 10, 10, ,0 ٠ 1 å о Ф 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ 10⁵ Frequency (Hz) 10⁴ t0⁵ Frequency (Hz) 3B ဗ္ဗ ₽ ō گ ₽ Figure 3A (4) 101 105 ·S \$\tilde{p}\$ \tilde{p}\$ \tilde{p}\$ \tilde{p}\$ \tilde{p}\$ \tilde{p}\$ \tilde{p}\$ \tilde{p}\$ \tilde{p}\$ \tilde{p}\$ 10. F - 100 *Z 10 • 5 5 5 100 z، Resistance (Ohm) Reactance (Ohm) Resistance (Ohm) Reactance (Ohm)

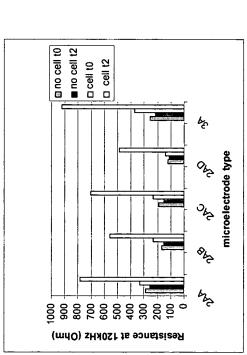
June 10,

.0

,5

, 5

Figure 3B



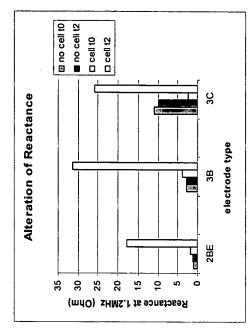
■ no cell t0

a cell to

200 150 100

Reactance at 1.2 MHz (Ohm)

300

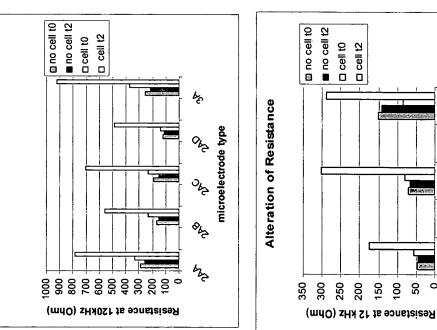


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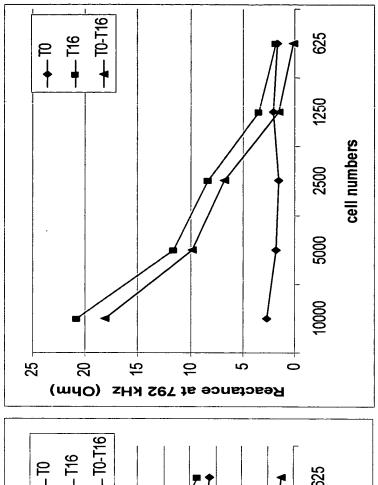
2BE

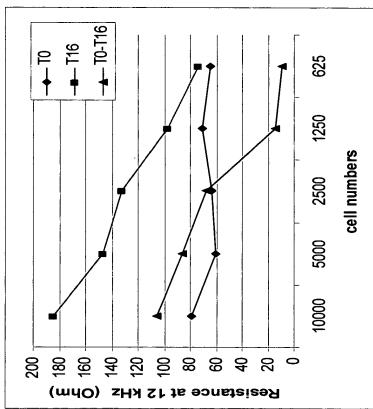
150

electrode type

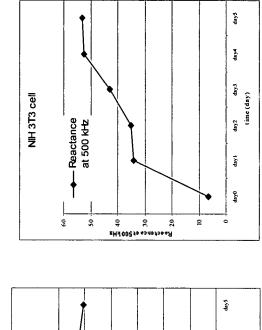


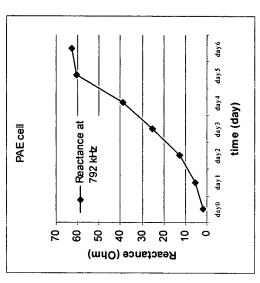
microelectrode type

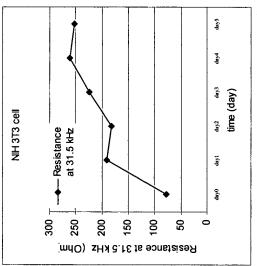


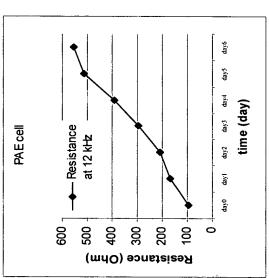


NIH 3T3 and PAE Cell Proliferation









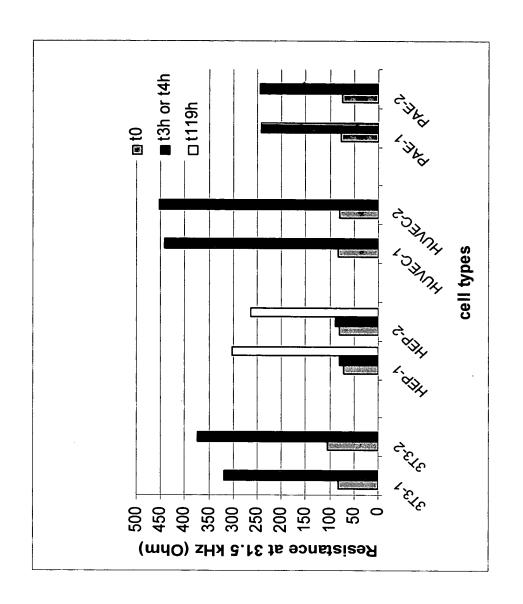
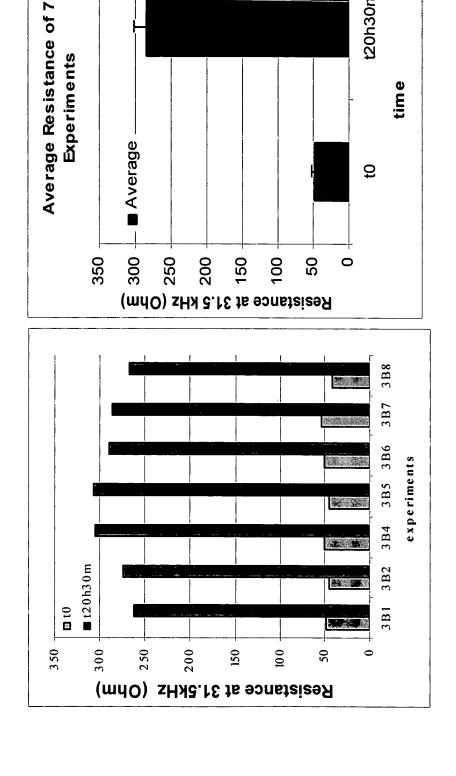
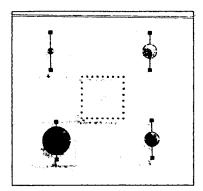


Figure 7



t20h30m

Figure 8.



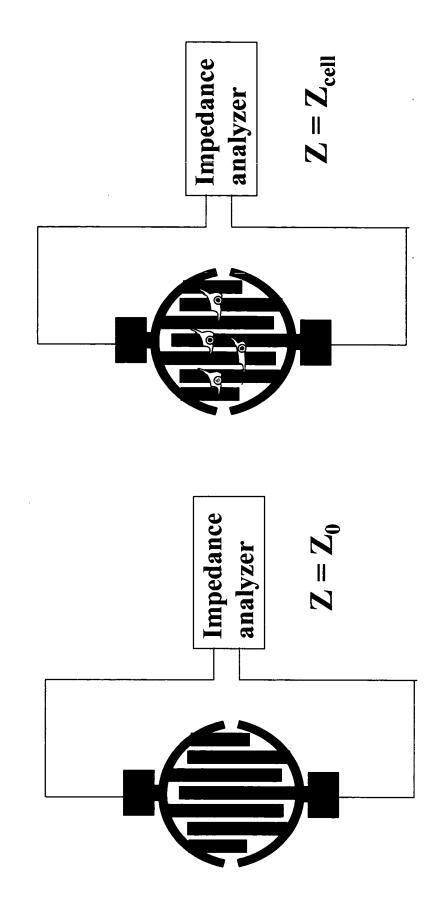


Figure 10.

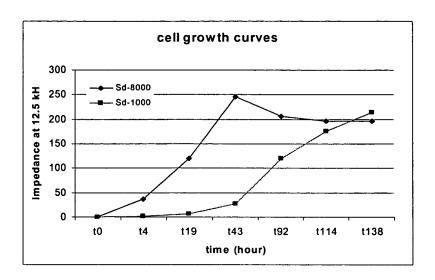
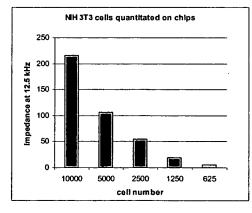


Figure 11.



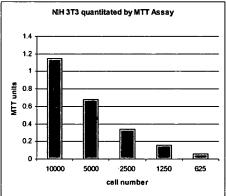


Figure 12.

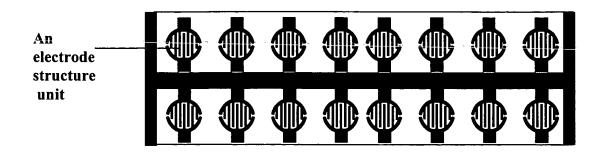
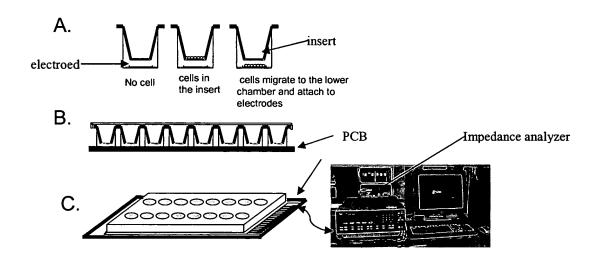
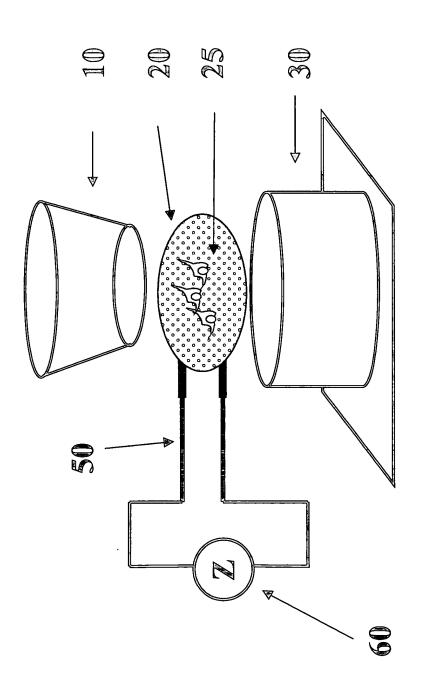


Figure 13.





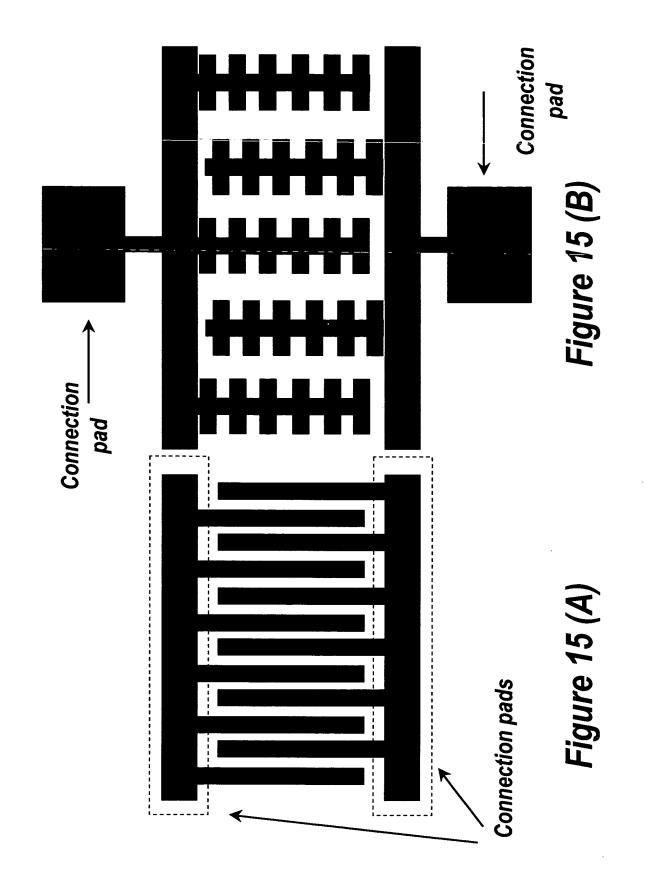
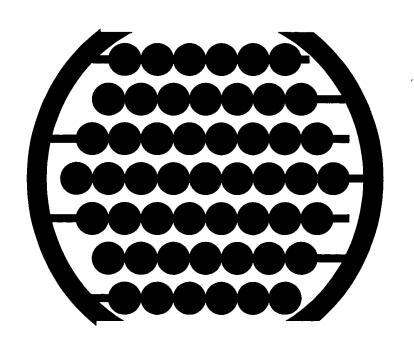
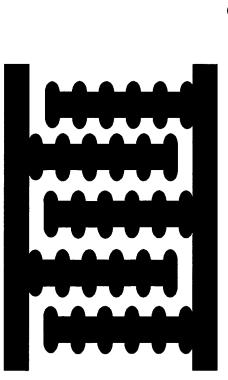


Figure 15(D)

Figure 15(C)

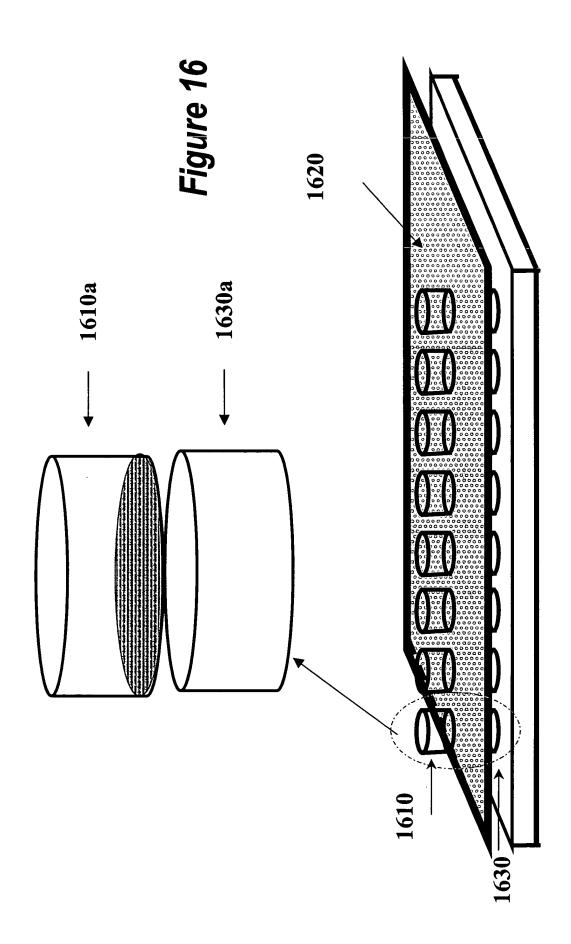


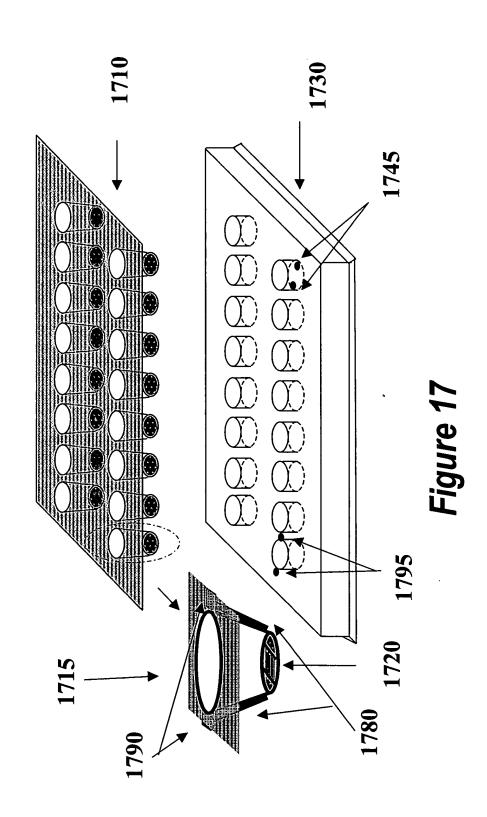


Concentric electrode structures

Figure 15(E)

Figure 15(F)





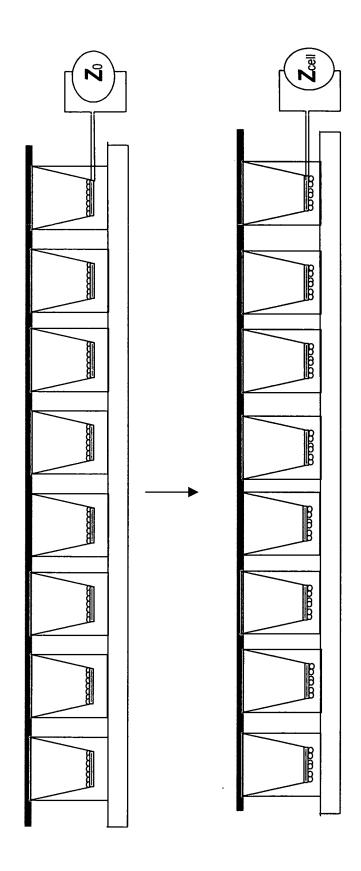
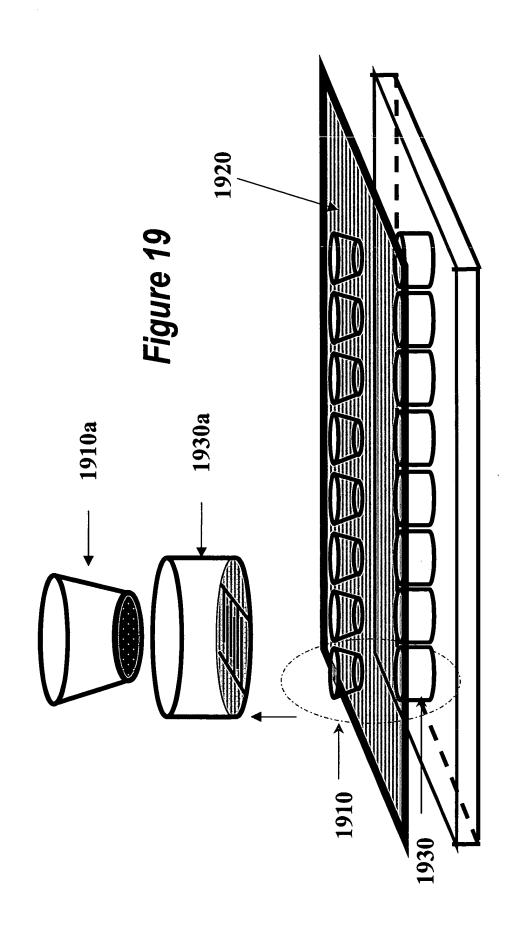


Figure 18



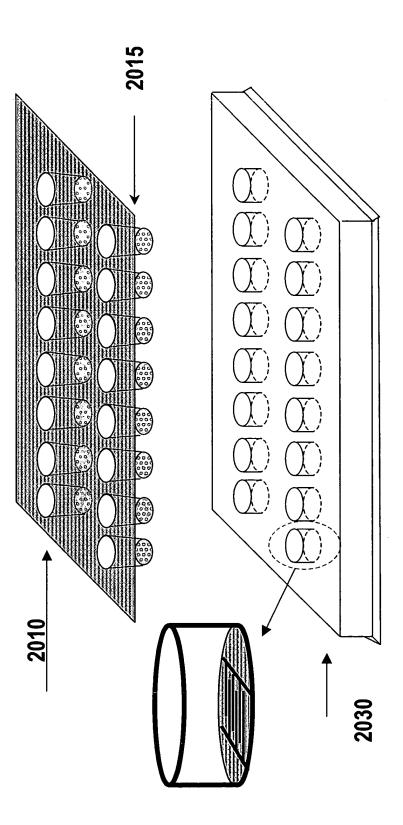


Figure 20

Figure 21

Figure 22.

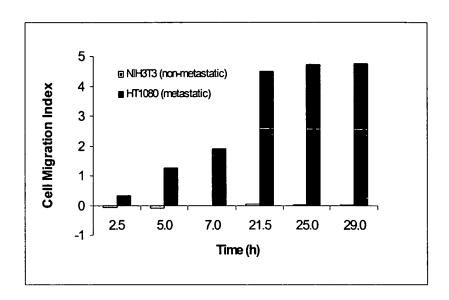
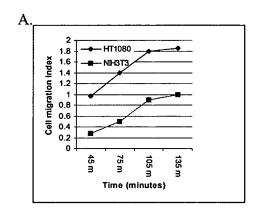


Figure 23.



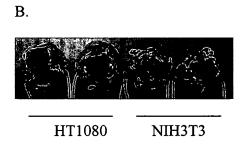
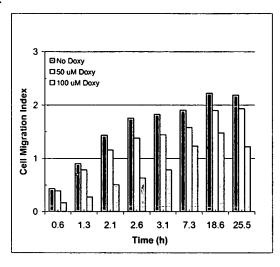


Figure 24.

A.



В.

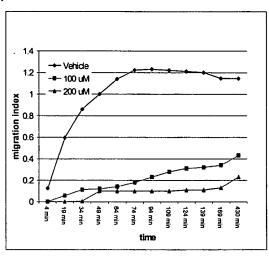


Figure 25(A).

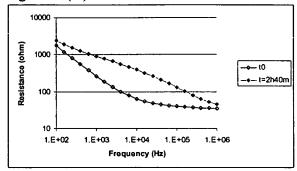


Figure 25(B)

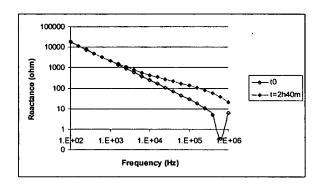


Figure 25(C)

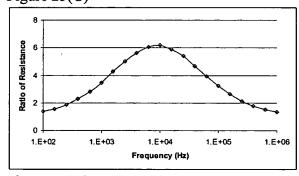


Figure 25(D)

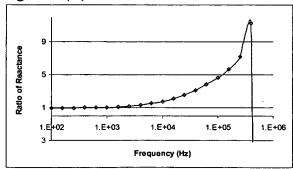


Figure 26(A)

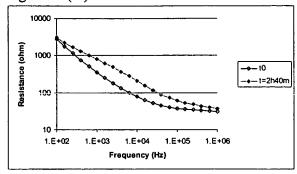


Figure 26(B)

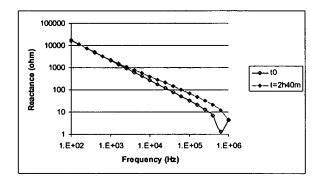


Figure 26(C)

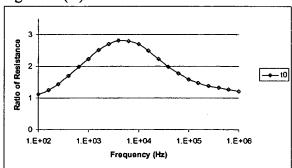


Figure 26(D)

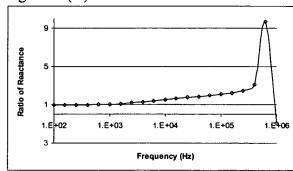


Figure 27(A)

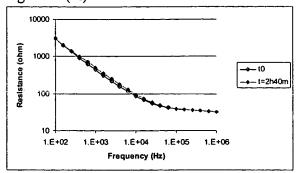


Figure 27(B)

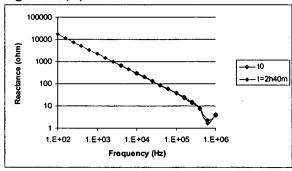


Figure 27(C)

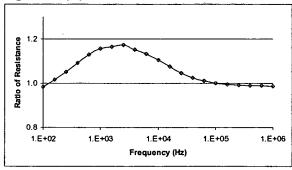


Figure 27(D)

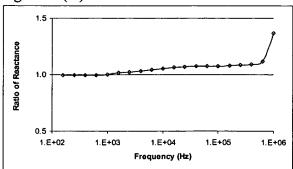


Figure 28(A)

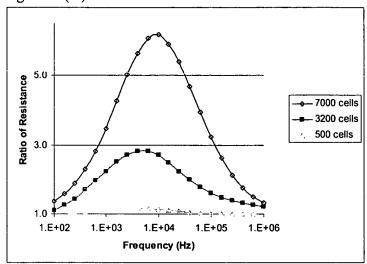


Figure 28(B)

